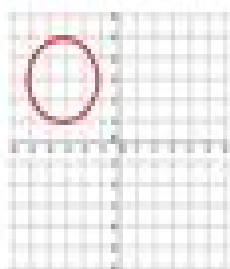


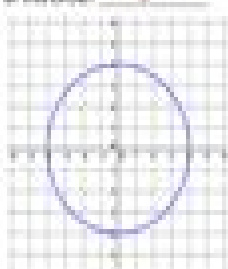
# Circle Equations Investigation

Name(s): Teacher's Guide Period:     

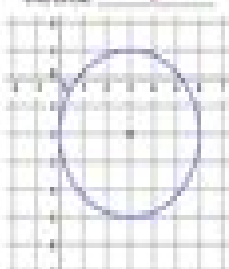
1. Sketch a circle with a radius of 2.



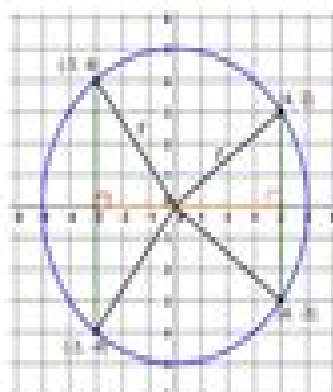
2. What is the length of the radius of the circle? 4



3. Find the length of the radius of the circle. 3



4. The circle to the right has four triangles drawn in it. Write an equation that will help you find the length of  $r$  for the triangle with the point  $(-3, 4)$  on the circle.



5. Write an equation that will help you find the length of  $r$  for the triangle with the point  $(4, 3)$  on the circle.

$$4^2 + 3^2 = r^2$$

6. Does the equation you used above work for the point  $(-3, -4)$ ?

$$3^2 + 4^2 = r^2 \text{ or } (-3)^2 + (-4)^2 = r^2$$

7. Does the equation you used above work for the point  $(4, -3)$ ?

$$4^2 + 3^2 = r^2 \text{ or } 4^2 + (-3)^2 = r^2$$

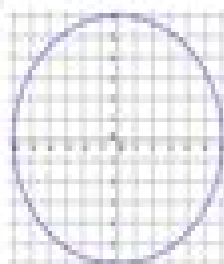
8. What is the length of the radius for the circle above? 5

9. Write an equation for any point  $(x, y)$  that would satisfy the graph above.  $x^2 + y^2 = 25$

The standard form of an equation of a circle centered at  $(h, k)$  with a radius with length  $r$  is  **$x^2 + y^2 = r^2$**

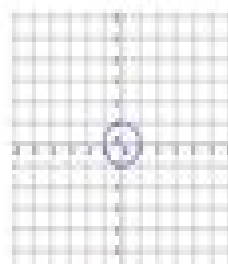
Find the standard form of the equation of the circle.

10.



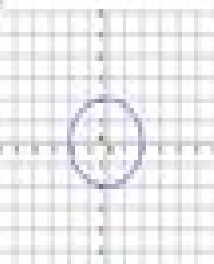
$$x^2 + y^2 = 25$$

11.



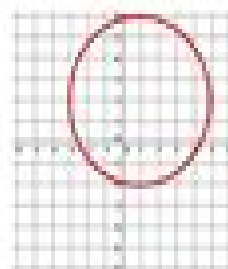
$$x^2 + y^2 = 1$$

12.

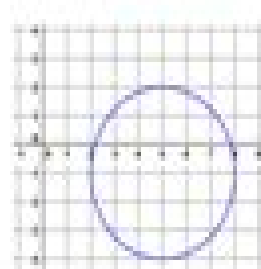


$$x^2 + y^2 = 4$$

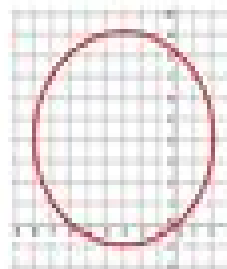
13. Sketch a circle centered at  $(1, 2)$  with a radius of 4.



14. Find the center and the radius of the circle.  $(2, -1)$ ,  $r = 4$

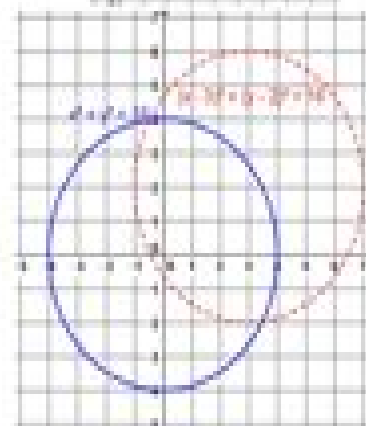


15. Sketch a circle with a center of  $(-3, 4)$  and a radius of 5.



16. Compare the solid and the dashed circles. How are they the same?

**They have the same radius (4). They are congruent.**



17. How are they different?

**They have different centers.**

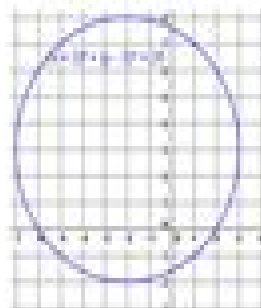
18. What point is the center of the dashed circle?

**(3, 2)**

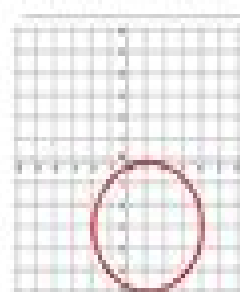
19. How is the center of the dashed circle relative to its equation?

**The x-coordinate's sign is changed and so is the y-coordinate's.**

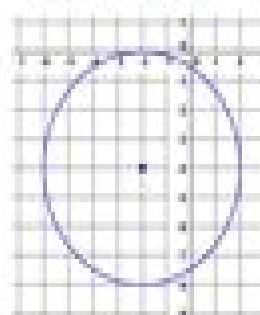
20. What is the center of the circle?  $(-3, 2)$   
How long is the radius? 5



21. Graph a circle with a center at  $(2, -3)$  and a radius of 3. Write the equation of the circle.



22. Write the equation of the circle.  $(x + 2)^2 + (y + 4)^2 = 16$



The standard form of an equation of a circle centered at  $(h, k)$  with a radius of  $r$  is

$$(x - h)^2 + (y - k)^2 = r^2$$

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**M Mark**



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**Algebra and Trigonometry, Graphs and Models, A Unit Circle Approach Plus MyMathLab Student Package** ANONIMO,Marvin Bittinger,Judith Beecher,David J. Ellenbogen,Judith Penna,2002-10-01

**Workbook 3: Graphs** ,1987

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web a nucleus changes into a new element by emitting nuclear radiations these changes are described using nuclear equations example  ${}^{86}_{219}\text{textrm{rn}} \rightarrow {}^{84}_{215}\text{textrm{po}}$

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web may 30 2014 answer link nuclear equations can be solved quite simply let's do one example of alpha decay and one of beta decay first a quick revision of radioactive decay during alpha decay an alpha particle is emitted from the nucleus it is the equivalent of a helium atom i.e. it has a mass of 4 and an atomic number of 2

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web nuclear reactions can be represented by balanced equations of nuclei in the  ${}^A_Z\text{X}$  form  ${}^A_Z\text{X}$  notation for atomic nuclei the top number A represents the nucleon number or the mass number nucleon number a total number of protons and neutrons in the nucleus the lower number Z represents the proton or atomic number

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web to describe a nuclear reaction we use an equation that identifies the nuclides involved in the reaction their mass numbers and atomic numbers and the other particles involved in the reaction types of particles in nuclear reactions many entities can be involved in nuclear reactions

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web the carbon 14 nucleus is unstable it's radioactive it's going to undergo spontaneous decay it's going to try to get a better neutron to proton ratio so let's look at the nuclear equation which represents the spontaneous decay of carbon 14 so here is

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web sep 12 2022 the half life of the nuclei and thus the material is  $t_{1/2} = 693 \text{ t}$  1 2 693 million years 35 a the decay constant is  $\lambda = 1.99 \times 10^{-5} \text{ s}^{-1}$   $\lambda = 1.99 \times 10^{-5} \text{ s}^{-1}$  b since strontium 91 has an atomic mass of 90 90 g

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